

Cumulative contents

Volume 4, No. 1, November 1991

Theme Issue on 3D-TV

Biographies	1
Theme papers	
L.F. Hodges and S.W. McWhorter Stereoscopic display for design visualization	3
L. Lipton Compatibility issues and selection devices for stereoscopic television	15
S. Pastoor 3D-television: A survey of recent research results on subjective requirements	21
F. Chassaing, B. Choquet and D. Pelé A stereoscopic television system (3D-TV) and compatible transmission on a MAC channel (3D-MAC)	33
A. Tamataoui and C. Labit Constrained disparity and motion estimators for 3DTV image sequence coding	45
R. Skerjanc and J. Liu A three camera approach for calculating disparity and synthesizing intermediate pictures	55
Regular paper	
L. Vandendorpe Optimized quantization for image subband coding	65
Regular short communications	
S. Panchanathan and M. Goldberg Adaptive algorithms for image coding using vector quantization	81
W.J. Zhang and Y.S. Yu Piecewise linear motion-adaptive interpolation	93

Volume 4, No. 2, April 1992

Theme Issue on Audio, Visual and Multimedia/Hypermedia Coding Standardisation (ISO Standard)

Biography	101
Theme papers	
H. Hampel, R.B. Arps, C. Chamzas, D. Dellert, D.L. Duttweiler, T. Endoh, W. Equitz, F. Ono, R. Pasco, I. Sebestyen, C.J. Starkey, S.J. Urban, Y. Yamazaki and T. Yoshida Technical features of the JBIG standard for progressive bi-level image compression	103
F. Kretz and F. Colaitis Coded representation of multimedia and hypermedia information objects: Towards the MHEG standard	113
D.J. Le Gall The MPEG video compression algorithm	129
S. Okubo Requirements for high quality video coding standards	141
A.G. MacInnis The MPEG systems coding specification	153

Regular paper

Q. Wang and R.J. Clarke Motion estimation and compensation for image sequence coding	161
Erratum	175
Announcements and call for papers	177

Volume 4, No. 3, June 1992**Papers**

L.-n. Wu and Z.-y. He A further reduction of multiplications in Wang's fast DCT algorithm	181
V. Seferidis and M. Ghanbari Image sequence coding using temporal co-occurrence matrices	185
F. Bosveld, R.L. Lagendijk and J. Biemond Hierarchical coding of HDTV	195
H.B. Mitchell and N. Mashkit Noise smoothing by a fast K -nearest neighbour algorithm	227
D.L. McLaren and D.T. Nguyen Variable bit-rate source modelling of ATM-based video services	233
L. Vandendorpe Hierarchical transform and subband coding of video signals	245

Volume 4, Nos. 4-5, August 1992*Special Issue on All Digital HDTV*

Preface	263
Biographies	265
Papers	
M. Cominetti, A. Morello and M. Visintin Advanced modulation and channel coding techniques for digital HDTV via satellite in the 20 GHz range	267
K.M. Uz, K. Ramchandran and M. Vetterli Combined multiresolution source coding and modulation for digital broadcast of HDTV	283
P. Fockens and A. Netravali The digital spectrum-compatible HDTV system	293
K. Joseph, S. Ng, D. Raychaudhuri, R. Siracusa, J. Zdepski, R. Saint Girons and T. Savatier MPEG++: A robust compression and transport system for digital HDTV	307
P.J. Tourtier, M. Pécot and J.-F. Vial Motion compensated subband coding schemes for compatible high definition TV coding	325
K. Sawada, Y. Yashima and H. Sakai An HDTV bit-rate reduction codec at the STM-1 rate of SDH	345
S. Matsumoto and H. Murakami 120/140 Mbit/s portable HDTV codec and its transmission performance in a field trial via INTELSAT satellite	359
Y. Ohtsuka, E. Nakasu, Y. Shishikui, H. Imaizumi and H. Nakanishi Development of 135 Mbit/s HDTV codec	379
W. Jaß, W. Tengler and E. Hundt A versatile DCT coding system for HDTV with interlaced and progressive scanning	389
P.H.N. De With, A.M.A. Rijckaert, J. Kaaden and H.-W. Keesen Digital consumer HDTV recording based on motion-compensated DCT coding of video signals	401
V. Michon and J.-L. Giachetti How to integrate access control mechanisms into digital HDTV systems?	421

<i>Cumulative contents</i>	537
S. Ono, N. Ohta and T. Aoyama All-digital super high definition images	429
Short communication	
J.D. Northcutt, G.A. Wall, J.G. Hanko and E.M. Kuerner A high resolution video workstation	445

Volume 4, No. 6, November 1992

Papers

G. Tziritas and J.C. Pesquet Predictive coding of images using an adaptive intra-frame predictor and motion compensation	457
F. Bellifemine, A. Capellino, A. Chimienti, R. Picco and R. Ponti Statistical analysis of the 2D-DCT coefficients of the differential signal for images	477
C. Diab, R. Prost and R. Goutte Exact image subband decomposition/reconstruction by DCT	489
P. Yu and A.N. Venetsanopoulos Hierarchical multirate vector quantization for image coding	497
K. Xie, L. Van Eycken and A. Oosterlinck A new block-based motion estimation algorithm	507
J.-S. Kim and R.-H. Park Local motion-adaptive interpolation technique based on block matching algorithms	519
Announcements and calls for papers	529
Author index	533
Cumulative contents	535

